

□if a English version is needed, please let me know□

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☐☐ ☐☐☐ email: gulifan@hotmail.com

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Nature

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[illegible]

**1)**  AlphaGo Zero  superhuman

[illegible]

**2) natural language process (NLP)** Chinese room argument

### 3) The Selfish Gene (The Immortal Gene)



## AlphaGo Zero Superhuman Quantum Supremacy

Nature 证明了超越人类和量子霸权

AlphaGo Zero Nature 证明了 superhuman [1] AlphaGo 证明了超越人类的 game AlphaGo Zero 证明了超越人类的 game

game Nature Quantum Supremacy 证明了量子霸权 [2]

Shor's algorithm Quantum Supremacy

qubit NISQ noisy intermediate-scale quantum

Quantum Supremacy Sycamore NISQ noise noise noise

Sycamore AlphaGo Zero

Quantum Supremacy noise

Sycamore Sycamore 200 10000

Quantum Supremacy NISQ John Preskill [3]

Quantum Supremacy Quantum Supremacy Nature

Quantum Supremacy optimization machine learning NISQ noisy Sycamore

noisy

Quantum Supremacy

Nature Superhuman Quantum Supremacy

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##### tensor #####
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# AlphaGo Zero – Superhuman – Quantum Supremacy – “AI” – “Quantum”

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Académie française

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smart phone niche market IT

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- [1] Mastering the game of Go without human knowledge, published in Nature, on 18 October 2017: <https://www.nature.com/articles/nature24270>.
- [2] Quantum supremacy using a programmable superconducting processor, published in Nature, on 23 October, 2019: <https://www.nature.com/articles/s41586-019-1666-5>
- [3] <https://www.quantamagazine.org/john-preskill-explains-quantum-supremacy-20191002/>.